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CIA/PIR-71007

CIA IMAGERY ANALYSIS DIVISION

LIQUID ROCKET ENGINE TEST FACILITY

OMSK, USSR

USSR UNITED KINGDOM NORTH SEA AMSTERDAM 160 SEA LAPTEV KARA SEA BERING SEA 25X1 TOP SECRET OFBLACK SEA 0 K H O T S K 25X1 CHINA MONGOLIA SEA IRAN CIA/PIR 7100 CHINA AFGHANISTAN

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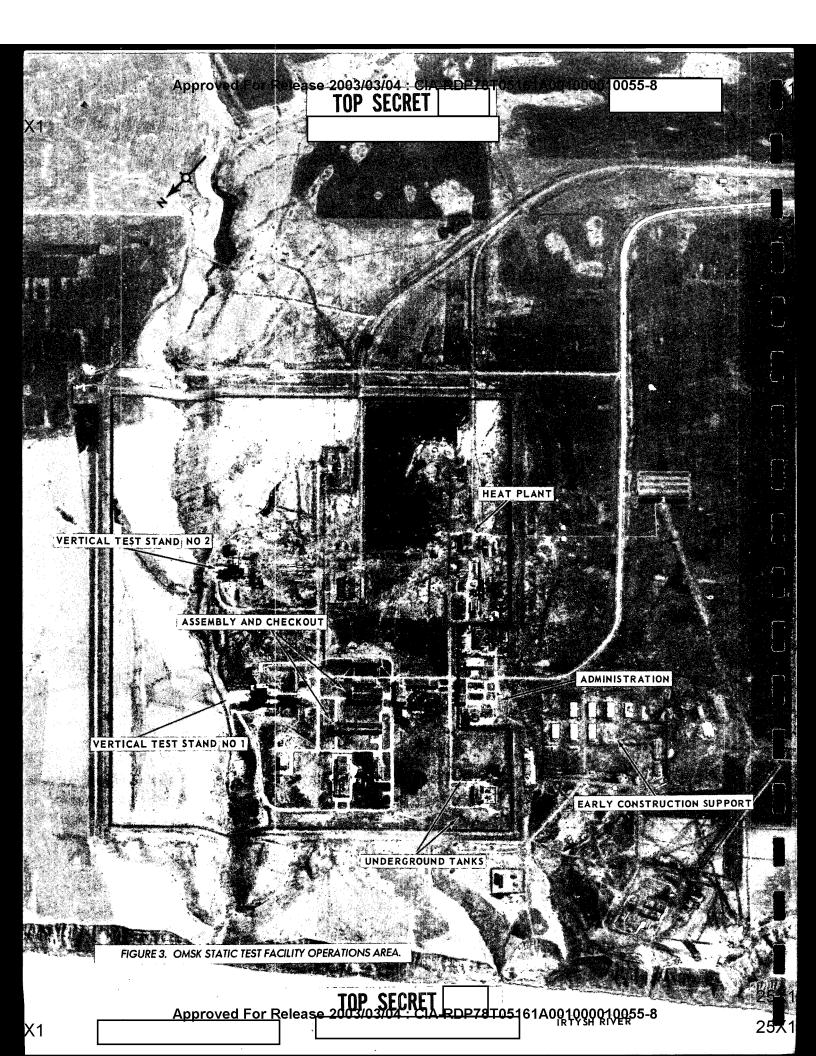
FIGURE 1. LIQUID ROCKET ENGINE STATIC TEST FACILITIES, USSR.

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	PREFACE	
Test Facility detailed analysi	coverages of the Omsk Liquid Rocket Engine Stating have made possible a rais and more accurate mensuration of the facility. The ded as an update of CIA/PIR-61115 of May 1966.	more
	SUMMARY	
located at 55-25	iquid Rocket Engine Static Test Facility 5N 73-17E, 29 nautical miles (nm) north of Omsk and 2 1lage of Gornaya Bitiya (Figures 1 and 2). It is post t side of the Irtysh River, a major tributary of the	sitionea
The facility was	as first observed on Numerous subsequent coverages ont of accurate construction chronologies for major po	at permit 2
consists of thrarea, the housi rail line servi construction swother continuin connects all thoperations area Test Stand No. been operationa	ty, served by a rail line which extends north from Omee functional areas designated as follows: the operating area, and the construction support area (Figure 2) ing the facility divides into two branches just south apport area, with one branch serving the support area are into the operations area. An all-weather road also aree areas of the facility. Two vertical test stands are the primary features at this installation. Ver 1 encloses a single test position which is believed to all since the fall	ations The of the and the inter- in the rtical to have
Since the mostly of two a	fall construction in the housing area has co	onsisted
At the con at the operation has taken place	nstruction support area, activity in support of constrons area and housing area has been evident, but no exp	ruction pansion



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OPERATIONS AREA (Figures 3 and 4)

Certain observations are of interest in discussing the operations area.

- l. Building No. 5 has an extremely large amount of available floor space with no less than eight large stacks protruding from its multi-leveled roof. This suggests a heat treatment plant with the possibility existing of a small foundry being at one end. There is a similar building in the operations area at Krasnoyarsk Static Test Facility.
- 2. Building No. 8, which is immediately adjacent to Building No. 5 is a large drive-through building, which measures is probably used for the assembly of components.
- 3. Building No. 3 has a possible connection with four large underground tanks of undetermined usage, located nearby.
- the southwest edge of the operations area containing ten identical buildings measuring only one of these buildings remained (Figure 4, Annotation 1) and the security fence had been partially removed. These buildings were probably used to house construction personnel while the area was in an early stage of development.

-2-

25X1

25X1

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Vertical Tes	t Stand No. 1 (Figures 5, 6,	and 7)
		**
ravine in the of Vertical which approximates approximates served by the the side and ramp at a 30 one of its appear to be appear to be appear to be for test observed by a small to a point of the side appear to be appear to be appear to be a small of the side appear to be appear to be appear to be appear to be a small of the side appear to be appear to be appear to be appear to appear	Test Stand No. 1 measures Access to the stand is to the stand above the base; and positioned above the stand. These processes and the stand. These processes are the stand at the known Soviet Liquid of these pipes is not discern used for exhausting of some stand at the stand, has six winds the stand, has six winds the stand are subular pipe extends from the stand of the stand o	easuring and situated dows on the westerly side apparently probable control cable trough toppe base of the observation building the stand. In close proximity to
	<u>lction</u> roads to the test star	and the second s
Vertical Tes	t Stand No. 2 (Figures 8, 9,	, and 10)
located approsection second stand Two access and west side the base of two position right access approximate cool the blace the latter of the latter of the second standard second secon	oximately 1,000 feet east of measures and and amps approach the stand from the structure and their press. A large pipeline enters ramp. It appears to origingly 1,400 feet south of the stat deflectors or a steam limits.	s still under construction, is Vertical Test Stand No. 1. This is approximately the rear and run along the east and approximately 50 feet above sence indicates the existence of the rear of the stand west of the nate at a possible pump house cand and may be a water line to ne for simulated altitude testing. There at 4. Buildings 21 and 22). There

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is also the possibility that this line is merely a pipe gallery enclosing several pipes with varying uses.	
In close proximity to <u>Vertical Test Stand No. 2</u> is an <u>observation</u> / control building measuring It is situated east of the test stand on the side of the excavation and appears to be connected to the stand by cable trough similar to those observed at stand No. 1.	25X1
Excavation for stand No. 2 was begun between	25X1
the superstructure was readily discernible. The following observations on construction status were noted on when the stand appeared to be approaching completion. 1. The blast deflector closest to Vertical Test Stand No. 1	25X1
appeared to still be under construction.	
 Access roads to the stand appeared to be unimproved. Construction support buildings and materials remain evident 	
throughout the area.	
4. No sign of a blast mark at the completed deflector has been observed.	
If the existing support buildings for stand No. 1 are utilized, the stand could be used by late	
HOUSING AREA (Figures 11 and 12)	

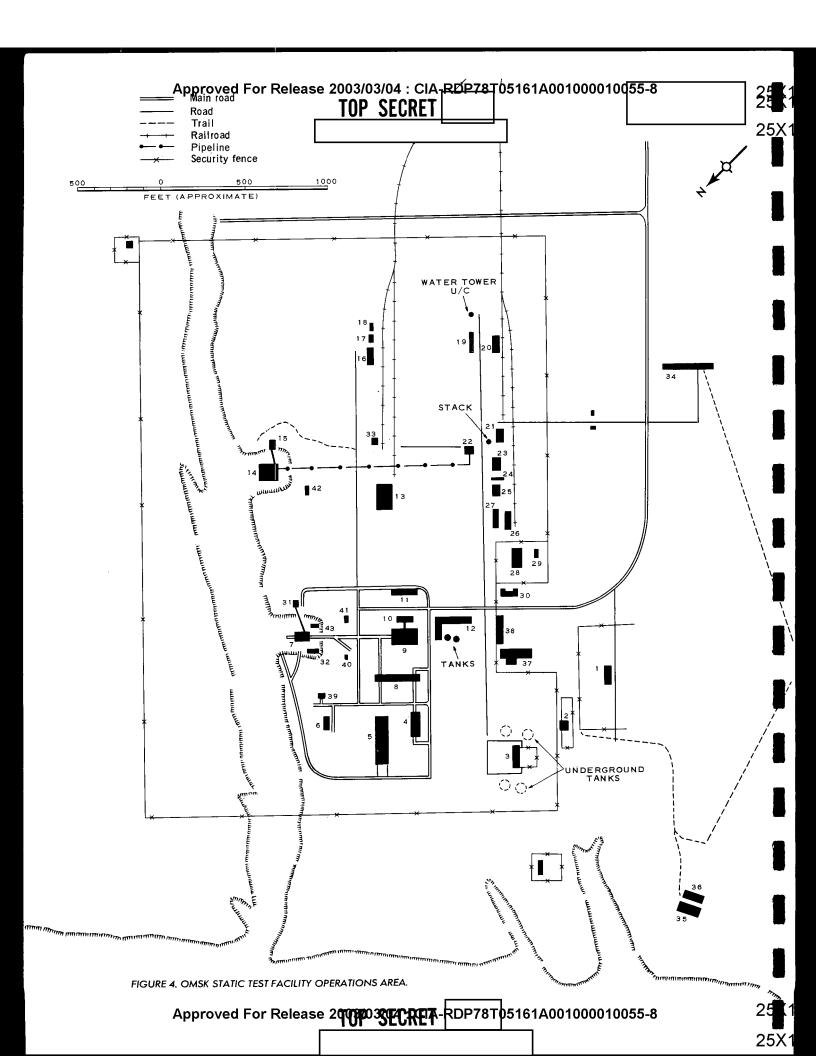
The housing area is located approximately three miles due south of the test facility. Within the area are 102 buildings with a total floor space for living quarters of (Table 2 keyed to Figure 12). An additional of floor space is used for administration, storage, support, school, and a heat plant.

This area is not rail served, but utilizes the main road net for access. Vehicles of approximately 30 feet in length, probably buses, have been observed enroute between the motor pool at the operations area and the housing area.

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Seven	different types of housing are in evidence at the Omsk Facility
, and	1. Fifty-five duplex and four single units account for to of living space. Twelve of the duplex were present on 42 more were constructed by the remaining one was complete on ingle units were complete before all duplex or single units have been erected since that time.
	2. Twelve single story apartment units account for ving area. These units were completed between
space. Fiv	3. Six two-story apartment account for of living of these units were complete by the final one being completed by
square feet	+. Twelve three-story apartment houses account for confliving area. Ten of the units were complete by the final two units being complete by
	Ten four-story apartment houses account for 464,640 square ring area. The first two units were completed by and the additional units have been added since that time.
	ast unit was complete by There all construction activity to the north of the housing area.
for the fir complete by	<u> </u>
	emoval of early construction support buildings as mentioned in the area has also been observed in the housing area (Figures 11 and
	CONSTRUCTION SUPPORT AREA (Figures 13 and 14)
area via th The area is	onstruction support area lies 3 nm southeast of the operations ne main access road. No security fencing is visible at the area served both by the eastern branch of the rail line and by the served from the housing and operations area.

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CIA/PIR-71007 CIA IMAGERY ANALYSIS DIVISION Duildings and structures in the area account for por space (Table 3 keyed to Figure 14). The buildings, ear to be used for storage, are single story structures and main access road. A cement batch plant is also ea (Figure 12, Items 12, 13, and 14). Extensive use open storage areas between the rail spur and the main access. The major portion of this area was complete by with two additional units being completed by and one final structure being erected as late as
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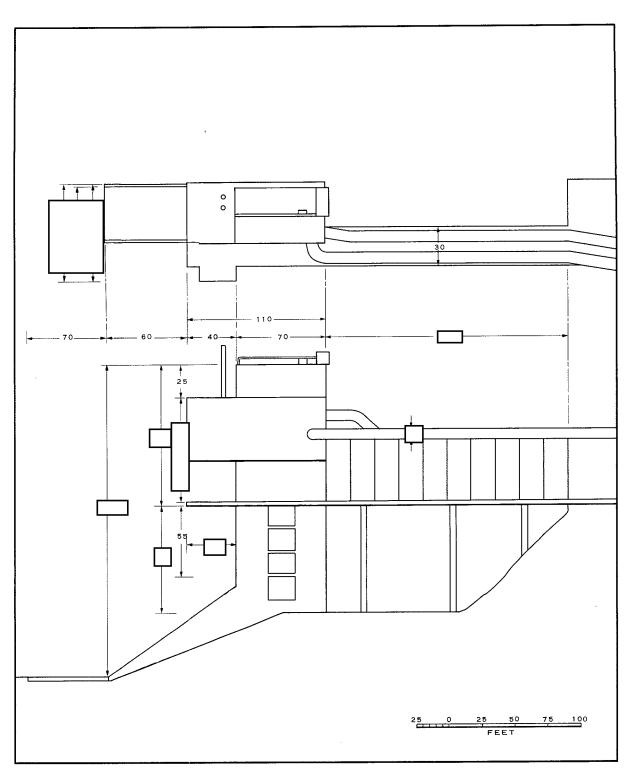
TABLE 1

OMSK STATIC TEST FACILITY

Operations Area

1	m 7 m	
Building		Function of Building
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		Construction Support Barracks Undetermined Assembly and Checkout Heat Treatment Undetermined Vertical Test Stand 1 Assembly and Checkout Assembly and Checkout Assembly and Checkout Assembly and Checkout Undetermined Support Vertical Test Stand 2 u/c Control Building for Vertical
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31		Test Stand 2 Receiving and Storage Heat Plant Pump House Receiving and Storage Motor Pool Motor Pool Administration Control Building for Vertical Test Stand 1
32 33 34 (3) 35 36 37 38 39 40 41 42 43		Test Stand 1 Control Associated Support Support Support Support Administration Administration Undetermined Control Associated Possible Nitrogen Cylinder Control Associated Control Associated
Total		

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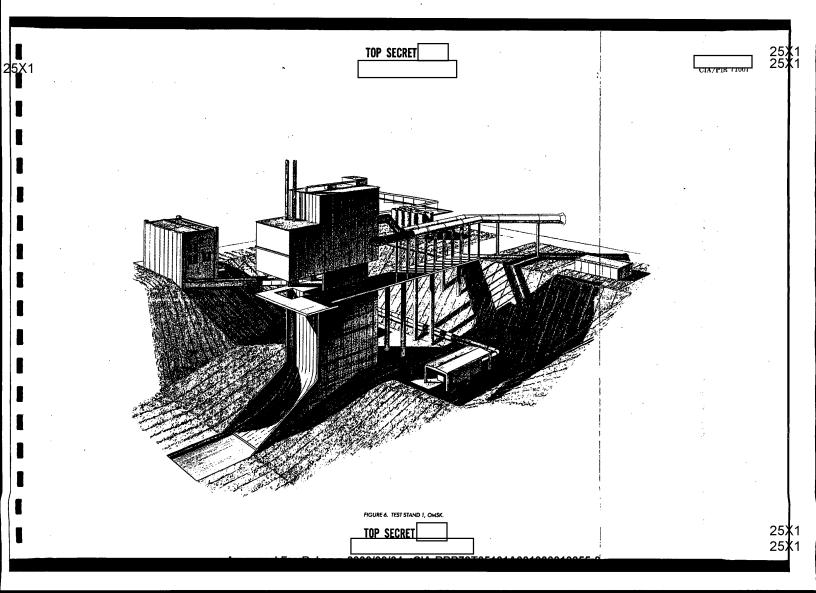


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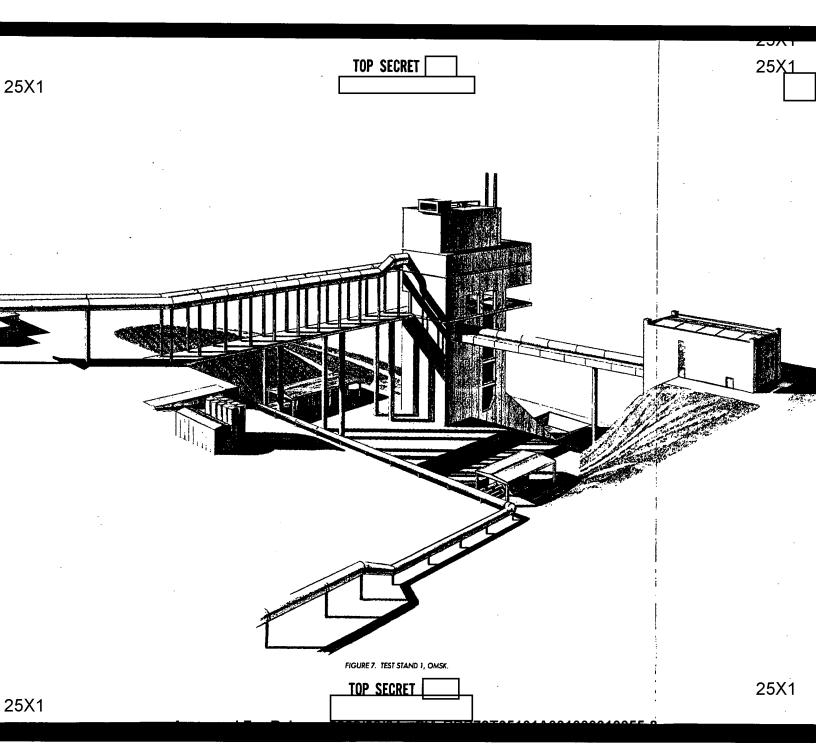
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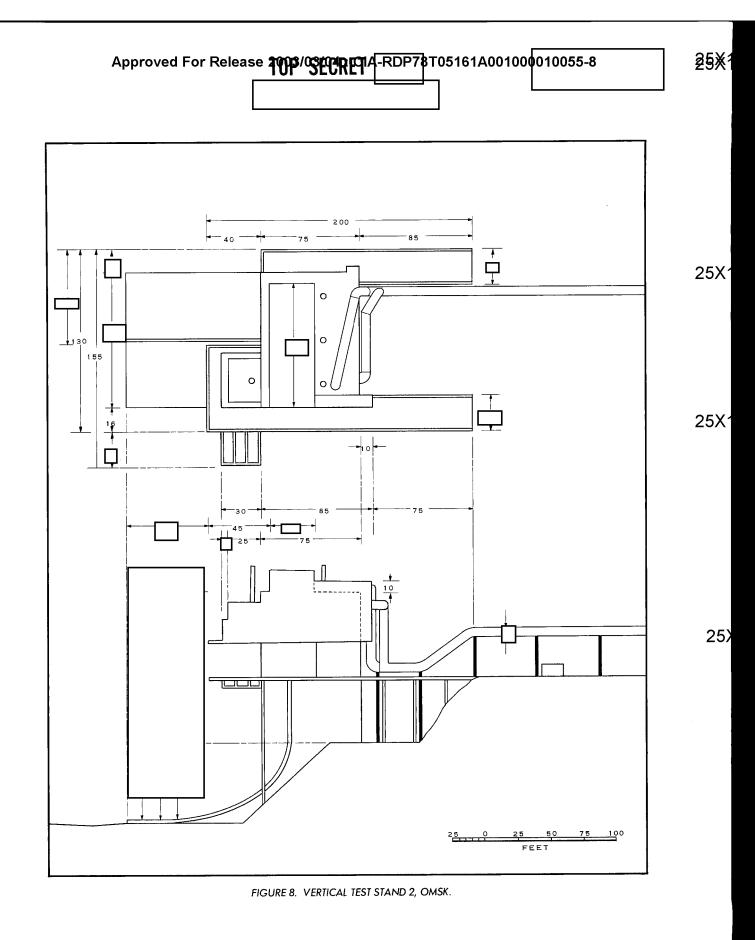
FIGURE 5. VERTICAL TEST STAND 1, OMSK.

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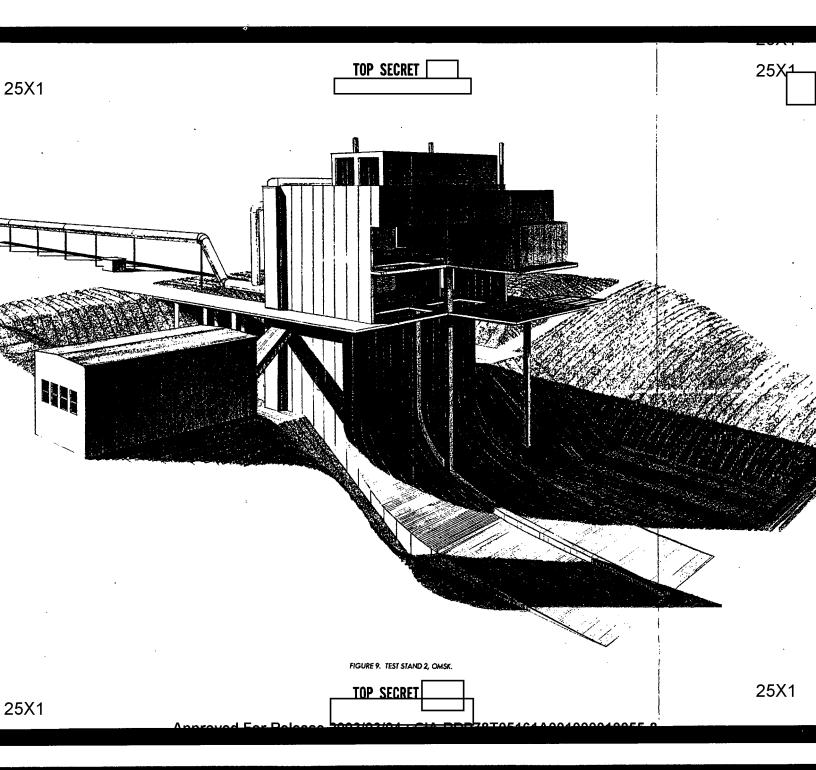




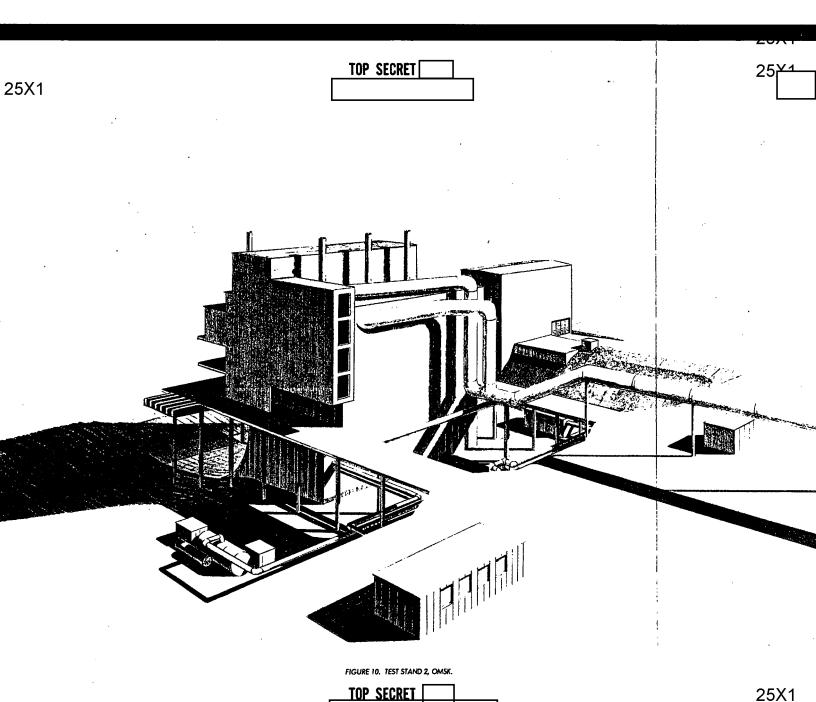
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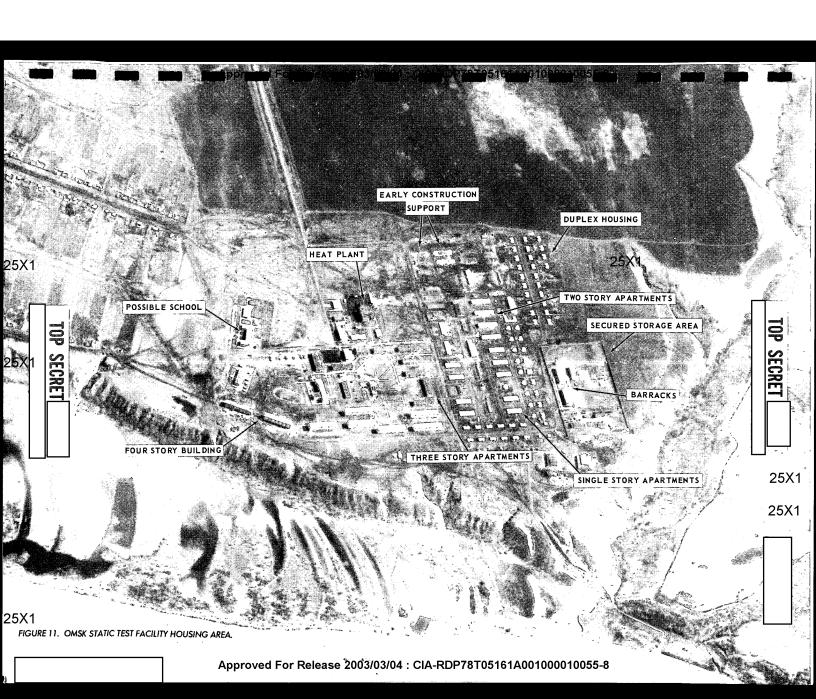
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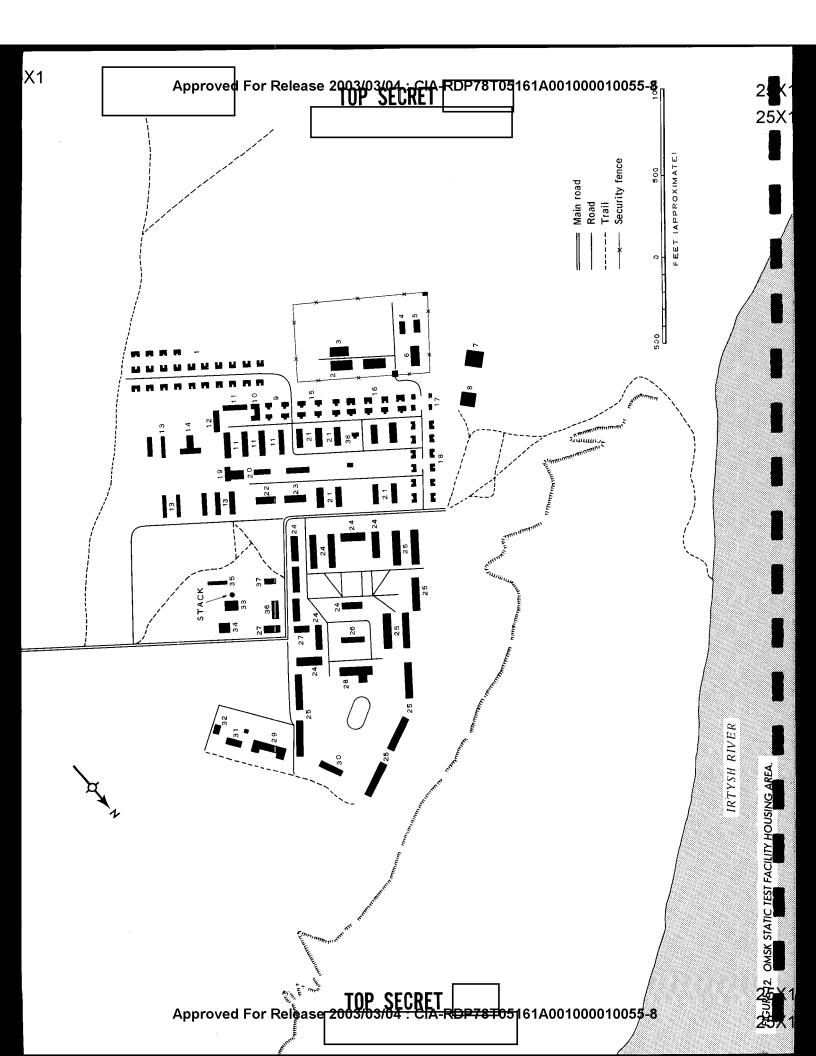
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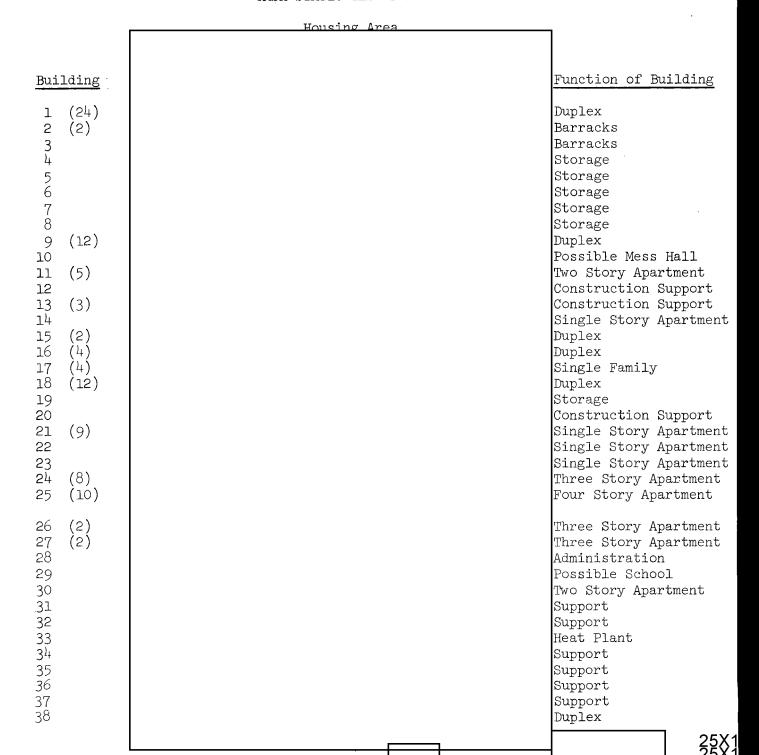




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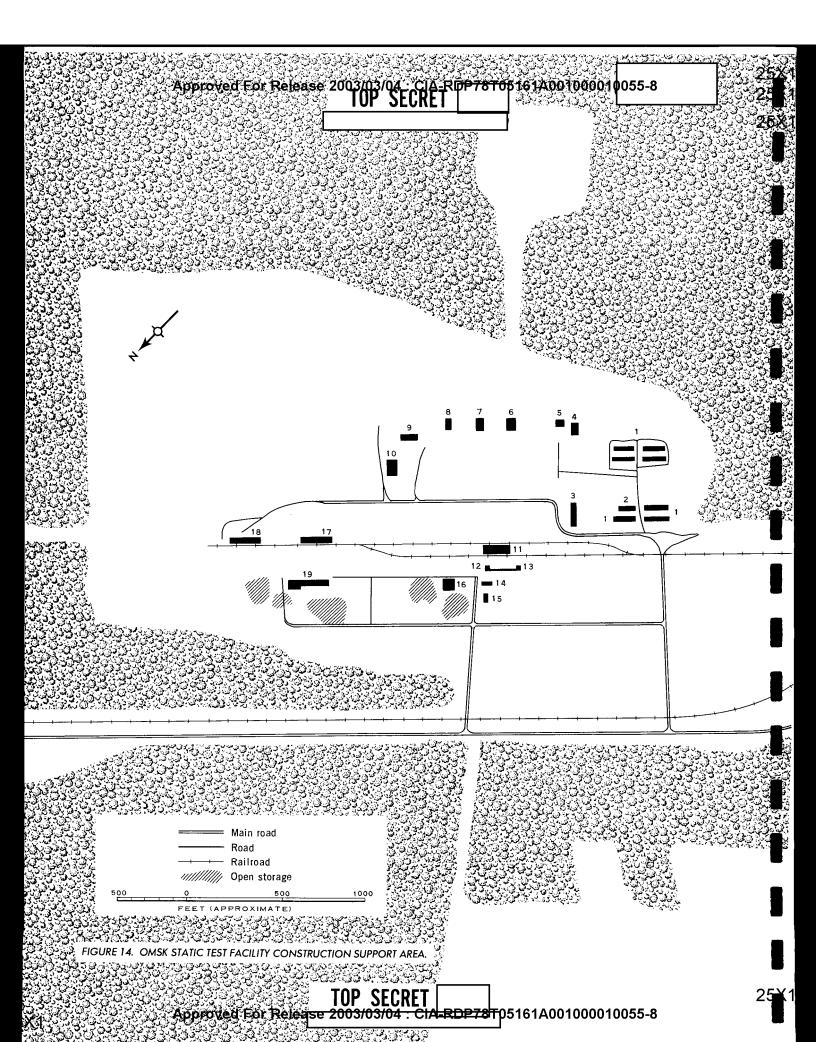
TABLE 2 OMSK STATIC TEST FACILITY



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TOP SECRET FIGURE 13. OMSK STATIC TEST FACILITY CONSTRUCTION SUPPORT AREA.

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TABLE 3

OMSK STATIC TEST FACILITY

Construction Support Area

19

Function of Building
Storage

Storage
Storage
Storage
Storage
Storage
Storage
Storage
Storage
Storage
Storage
Receiving and Storage
Cement and Gravel
Cement Storage
Storage

Receiving and Storage Receiving and Storage Receiving and Storage Receiving and Storage

25X1

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REQUIREMENT

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